

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/014569 A1

(51) International Patent Classification⁷: **B05B 17/06**

(21) International Application Number:
PCT/EP2003/008482

(22) International Filing Date: 31 July 2003 (31.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02016972.8 2 August 2002 (02.08.2002) EP

OLN (GB). POLLOCK, Neil [GB/GB]; 20 Coombelands,
Royston, Hertfordshire SG8 7DW (GB). SANT, Andrew,
Jonathan [GB/GB]; 35 Stanbury Close, Fen Ditton,
Cambridge, Cambridgeshire CB5 8UP (GB).

(74) Agents: HOFFMANN EITLE et al.; Arabellastrasse 4,
81925 München (DE).

(81) Designated States (*national*): JP, US.

(84) Designated States (*regional*): European patent (AT, BE,
BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU,
IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(71) Applicant (*for all designated States except US*): PARI
GMBH SPEZIALISTEN FÜR EFFEKTIVE INHALA-
TION [DE/DE]; Moosstrasse 9, 82319 Starnberg (DE).

(72) Inventors; and

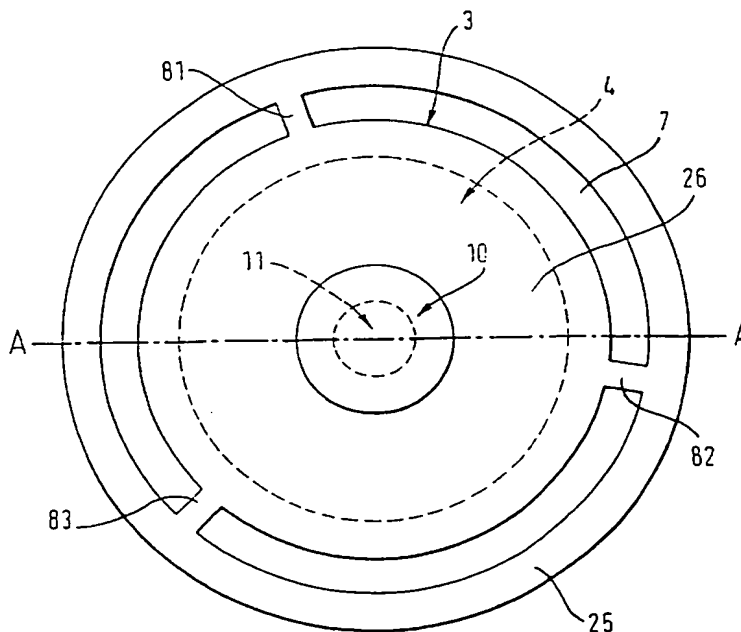
(75) Inventors/Applicants (*for US only*): URICH, Markus
[DE/DE]; Arno-Assmann-Strasse 9, 81739 München
(DE). HYDE, Samuel, Charles, William [GB/GB]; 66
Girton Road, Girton, Cambridge, Cambridgeshire CB3

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: FLUID DROPLET PRODUCTION APPARATUS AND METHOD



(57) **Abstract:** A fluid dispersion device comprises a substrate (3) having an outer section (25) and an inner section (26), said inner section (26) of the substrate (3) having an aperture (11), a dispersion element (10) positioned at said aperture (11) of said substrate (3), and an actuator (4) arranged to coaxially surround said aperture (11) of said substrate (3), wherein the outer edge of said inner section (26) of said substrate (3) is coupled to said outer section (25) of said substrate by a plurality of resilient members (81, 82, 83).

WO 2004/014569 A1